

WHAT IS CLAIMED IS:

1. A purified and isolated 52 ± 8 kD molecular weight protein, free of the cell line M20 and M20-2, said protein being characterized by a pI of 4.1 and by having general cytostatic but not cytotoxic activity.

2. A purified and isolated 52 ± 4 kD molecular weight protein, free of the cell line M20 and M20-2, said protein being characterized by a pI of 4.1 and by having general cytostatic but not cytotoxic activity.

3. A protein of claim 1 or claim 2, wherein the cytostatic activity is on immune cells.

4. A purified and isolated 52 ± 8 kD molecular weight protein, free of the cell line M20-2, said protein being characterized by a pI of 4.1 and the inhibition or reduction of an inflammatory response.

5. A purified and isolated 52 ± 4 kD molecular weight protein, free of the cell line M20-2, said protein being characterized by a pI of 4.1 and the inhibition or reduction of an inflammatory response.

6. A purified and isolated 52 ± 8 kD molecular weight protein, free of the cell line M20-2, said protein being characterized by a pI of 4.1 and the inhibition or reduction of IL-1 associated effects.

7. A purified and isolated 52 ± 4 kD molecular weight protein, free of the cell line M20-2, said protein being characterized by a pI of 4.1 and the inhibition or reduction of IL-1 associated effects.

8. A protein of claim 6 or claim 7, wherein one of the IL-1 associated effects is an inflammatory response.

9. A therapeutic composition comprising an anti-inflammatory-effective amount of the protein of claim 1 in combination with a pharmaceutically acceptable carrier.

5 10. A method of inhibition or reduction of an inflammatory response which comprises administering to an individual in need of such treatment an effective amount of the protein of claim 1.

10 11. The method of claim 10 wherein the amount is about .0001-1.0 μ g per kg of body weight.

15 12. A substantially pure protein free of major contaminants as shown by the presence of one band in SDS-PAGE, the protein having general cytostatic but not cytotoxic activity and the same amino acid sequence and isoelectric point as ~~the~~ cytostatic factor protein with an isoelectric point of 4.1 ± 0.2 obtained from M20-2 cells, and active fragments thereof.

20 13. A protein of claim 12, wherein the molecular weight is 54 ± 8 .

25 14. A protein of claim 12, wherein the molecular weight is 54 ± 4 .